

CLAIMS

1. A separator for electrical and electronic parts which is coated with at least one substance selected from ionic substances, hydroxyl group-containing substances and silicon compounds.
2. A separator of claim 1 wherein said ionic substances are selected from calcium carbonate, calcium chloride, anhydrous calcium chloride, calcium oxide, sodium chloride, sodium sulfate, anhydrous sodium sulfate, sodium sulfite, copper sulfate, anhydrous copper sulfate, aluminum sulfate and sodium carboxymethylcellulose.
3. A separator of claim 1 wherein said hydroxyl group-containing substances are selected from alcohols, glycols and polysaccharides.
4. A separator of claim 1 wherein said silicon compounds are selected from silica gel, silica sol, silica and zeolite.
5. A separator of claim 1 which is selected from paper, non-woven fabric, fine porous film and a composite thereof.
6. A separator of claim 1 which is made from a material selected from aramid, polyester, polypropylene, polyethylene, polyphenylene sulfide, fluoroplastic, polyvinyl alcohol, PBO (poly-para-phenylene benzobisoxazole), polyimide, glass, carbon, alumina, natural fiber and natural pulp.
7. A separator of claim 1 which is subjected to heat treatment before and/or after coated.
8. A separator of claim 1 which has a sucking height in a range as shown by the following inequality (2):

$$0.7 < h^2\eta/\gamma t \quad (2)$$

wherein h denotes the height (mm) to which a liquid is sucked up within a period of t seconds; η denotes the viscosity (mP a S) of said liquid; γ denotes the surface tension (mN/m) of said liquid; and t denotes sucking time (second).

9. A process to manufacture a separator of claim 1 which is characterized by the following steps: at least one substance selected from ionic substances, hydroxyl group-containing substances and silicon compounds is previously dissolved or dispersed in water; subsequently, an uncoated separator is soaked in the resultant solution or dispersion; and then, said separator is dried so that moisture may be evaporated.

10. A process of claim 9 which is characterized by the following steps: an uncoated separator is previously integrated with a part before soaked in a solution; subsequently, thus assembled whole part is soaked in a solution; and then said whole part is dried so that moisture may be evaporated.

11. Electrical and electronic parts wherein a separator of claim 1 is used.